HIERARCHY SHEET FOR MINI SOOM

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A/12	MATCH ASSY ONLY PER ED# 100977		SMN/MEP

JP4 — W6

JP5 — VCC, GND, GND, +15, GND, -15, -6, TXD, RXD, CTS/, RESET/, GND, C-LOCK, GND

R23 100K W1
R26 100K W2
R21 100K W3
R27 100K W4
R20 100K W5

JP2 — W1, W2, W3, W4, W5

CPU
- TXD, RXD, CTS/, RESET/, C-LOCK
- W[1..5]
- VCC, D GND
- ADC RESET/, RESISTORS, ADCCHN, ADCSTART/, ADCDATA, DATACLK, SLEEP/
- IRLED/, REDLED/, DACADDR, DAC1WR/, DAC2WR/
- DACBUS[0..7]
- SATIN
- COMPARE1, COMPARE2, REDGATE/, IRGATE/, LEMO/

ADC
- SLEEP/, DATACLK, ADCDATA, ADCSTART/, ADCCHN, RESISTORS, ADC RESET/
- -6V, VCC, D GND
- IR_ADC, RED_ADC
- REF2.5, +VA, -VA, S GND, VCAL1, VCAL2, VTHERM

FILTERS
- RED_ADC, IR_ADC
- RED, IR, REF2.5, -VA, S GND, +VA

LED DRIVER
- IRLED/, REDLED/, DACADDR, DAC1WR/
- DACBUS[0..7]
- -6V, +15V, -15V
- REF2.5, +VA, -VA, S GND, VCC
- -LED, +LED
- LED GND

SYNCHRONOUS DEMODULATOR
- SATIN
- DAC2WR/, DACBUS[0..7], COMPARE1, COMPARE2, REDGATE/, IRGATE/
- +15V, -15V
- +VA, -VA, S GND, RED, IR
- V-, V+
- XX

LEMO CONNECTOR
- D GND, S GND, +VA, LEMO/, REF2.5, +15V, -15V, VCC, VCAL1, VCAL2, -VA
- XX, DETECTOR, ANNODE, CATHODE
- VCALIN1, VCALIN2
- V+, V-

LEMO CONNECTOR — JP3: DETECTOR, -15V, GND, +15, GND, VCALIN, -LED, VTHERM, +LED, GND

D-9 CONNECTOR — JP1: ANNODE, N.C., GND, CATHODE, GND, VCALIN, -LED, VTHERM, +LED, GND

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TITLE: SCHEMATIC, MINI SOOM, MP-203

NELLCOR — 22600 Hallmark Street, Hayward, California 94545

ACAD REF. 3909ACI.DWG

DRAWING NUMBER: 009590 — REV: A/12 — SHEET 1 OF 7

	DRAWN PSR	DATE 6/22/90
	CHK. J CRAIG	DATE 7/3/90
	ENGINEER C RODRIGUEZ	DATE 7/3/90
	APPROVED J CRAIG	DATE 7/3/90

UNLESS OTHERWISE NOTED: DECIMAL +/- — FRACT. +/- — ANG. +/- — SCALE —

LEMO CONNECTOR

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
	SEE SHEET 1		

V-
XX
V+
VCC
D GND
-15V
LEMO/
S GND
+15V
+VA
-VA
REF2.5
VCAL1
VCAL2
T7
T12
T3
T15
T1
T9
R43 100
+15V
OVCC
OGND
C35 0.047UF
U10A
S1 S2 IN V+ VL
D1 D2 V- GND
IH5051
+VAO
C31 0.047UF
R61 1.00K
-15V
C36 0.047UF
DETECTOR
U4D
S IN D
DG444
R7 100
C44 0.047UF
C33 22PF
R40 499K
PIN 8 TO GND FOR OPA121
U8
LT1055S8
ANNODE
CATHODE
R44 75.0K
R38 100K
C2 10UF
C32 0.047UF
U4C
S IN D
DG444
R35 100
C41 0.047UF
C11 0.047UF
U21A
TL062
R17 7.50K0.1%
C18 0.047UF
VCALIN1
C79 0.047UF
R16 7.50K0.1%
U21B
TL062
C16 0.047UF
VCALIN2

NO. REQ.	NEXT ASSY.		
DIMENSIONAL TOLERANCES UNLESS OTHERWISE NOTED			
DEC.	FRAC.	ANG.	
.XX +/-	+/-	+/-	
.XXX +/-	SCALE		

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TITLE: SCHEMATIC, MINI SOOM, MP-203

NELLCOR

DRAWN PSI	DATE 5/22/91
ENG.	DATE
CHECKED	DATE
APPROVED	DATE

D | DRAWING NUMBER 009590 | REV A/12 | SHEET 2 OF 7

SYNCRONOUS DEMODULATOR

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
	SEE SHEET 1		

COMPARE1
XX
+15V
+VA
S GND
-VA
-15V
DACBUS[0..7]
DAC2WR/
COMPARE2
SATIN
V+
V-
REDGATE/
IRGATE/
D2 MMBD6050
T11
T4
R37 1.00K
C34 0.047UF
R39 499K
R41 154K
U7A TLC27L2
R59 51.1K
C55 0.1UF
C4 75PF
R9 51.1K
U13B TLE2022
U9 DAC7524
C48 10PF
C53 0.047UF
U13A TLE2022
C49 0.047UF
C43 0.047UF
C47 390PF
R49 51.1K
R50 1.00K
U14B TLE2022
T8
R8 50K SIP
R42 1.00K
R51 1.00K
D3 MMBD6050
R33 499K
R32 154K
C40 0.047UF
U10B IH5051
C54 0.047UF
U14A TLE2022
C51 0.047UF
U15B IH5051
U15A IH5051
C56 0.047UF
C52 0.047UF
C50 0.047UF
RED
IR

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TITLE	SCHEMATIC, MINI SOOM, MP-203	NELLCOR	
DRAWN PSI	DATE 8/22/90	D	ACAD REF. S3690AC3.DWG
ENG.	DATE		DRAWING NUMBER 009590
CHECKED	DATE		REV A/12
APPROVED	DATE		SHEET 3 OF 7

FILTERS

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
	SEE SHEET 1		

+VA
S GND
-VA
+VAO
-VAO
REF2.5
RED
IR
C77 0.047UF
C69 0.047UF
R80 75.0K
C78 0.047UF
R14 34.8K
R76 75.0K
C12 0.22UF
U22A
DP490GS
R66 34.8K
R15 75.0K
C74 0.047UF
R11 75.0K
C15 0.22UF
U22C
DP490GS
R74 51.1K
C14 0.1UF
R69 100K
C76 0.047UF
U23A
TL062
C72 0.047UF
T13
RED_ADC
R67 75.0K
C64 0.047UF
R10 34.8K
R70 75.0K
C10 0.22UF
U22D
DP490GS
R79 34.8K
R82 75.0K
C63 0.047UF
R75 75.0K
C17 0.22UF
U22B
DP490GS
R78 100K
C13 0.1UF
R73 100K
U23B
TL062
T14
IR_ADC
R12 100K
C58 0.047UF
R68 1.00K

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TITLE: SCHEMATIC, MINI SOOM, MP-203

NELLCOR

DRAWN PJS DATE 8/22/90
CHK. —— DATE ——
ENGR'D —— DATE ——
APPROVED —— DATE ——

SIZE D | DRAWING NUMBER 009590 | REV A/12

SHEET 4 OF 7

ADC

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
	SEE SHEET 1		

VCAL1
RED_ADC
IR_ADC
VCAL2
RESISTORS
U24A
U24B
U24C
U24D
DG444
-VAO
+VA
U17A
74HC14
R83
R77
100
C61
1000PF
C73
1000PF
+VAO
C68
0.047UF
C6
10UF
U19
VIN
VOUT
TEMP
TRIM
GND
REF43GS
T10
C62
0.047UF
C7
10UF
R63
3.0
R64
3.0
REF2.5
VTHERM
R65
10.0K
C59
0.047UF
-VAO
D5
HSMS-2820
C5
10UF
-6V
U18
VOUT2
SENSE
SHDN
-VIN
GND
VOUT1
VSET
SHDN
ICL7664A
R56
100K
R58
34.8K
C57
0.047UF

+VD
C8
1UF
C60
0.047UF
R60
10
+VAO
R57
10
C75
0.047UF
VCC
-VD
C9
1UF
R62
10
-VA
C65
0.047UF
C71
0.047UF
OGND
S GND
D GND
Y2
800KHZ
R81
1.00M
C66
100PF
C70
100PF

CLKIN
XOUT
VREF
AIN1
AIN2
CH1/2
HOLD
SDATA
SCLK
SLEEP
CRS/FIN
RST
VD+
DGND
VD-
VA+
AGND
VA-
REFBUF
TEST
STBY
SSH
TRK1
TRK2
BP/UP
OUTMOD
SCKMOD
CODE2S
CS5102
U20
NC
C67 0.1UF
R71 0
R72 0
LOAD R72
DO NOT LOAD R71

ADC RESET/
SLEEP/
DATACLK
ADCDATA
ADCSTART/
ADCCHN

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TITLE: SCHEMATIC, MINI SOOM, MP-203

NELLCOR

DRAWN PSI DATE 6/22/90
ENG DATE
CHECKED DATE
APPROVED DATE

D

DRAWING NUMBER 009590 REV A/12

SHEET 5 OF 7

L.E.D. DRIVER

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
	SEE SHEET 1		

VCC — o VCC
-6V — o -6V
LED GND
S GND
+VA — o +VA
-VA — o -VA
+15V — o +15V
-15V — o -15V

REDLED/
IRLED/

R24 10 — VCCO
R6 4.99K
R5 4.99K
C1 10UF
Q1 MMBT4403
Q2 MMBT4403
+LED
-LED

R18 10 — VCCO
C26 0.047UF
U3A TL062
R31 1.00K
R36 1.00K
C29 0.047UF — -6V
D1 MMBD6050
Q3 MMBT4401
Q4 MMBT4401
R29 1.00K
T2
Q5 2N7002
R1 10
Q6 2N7002

REF2.5
R13 34.8K
R28 10.0K
C28 0.047UF
U3B TL062

DACBUS[0..7] — DACBUS[0..7]
DACBUS0
DACBUS1
DACBUS2
DACBUS3
DACBUS4
DACBUS5
DACBUS6
DACBUS7
U1 DAC7528
DB0 DB1 DB2 DB3 DB4 DB5 DB6 DB7
D GND
VDD
RFB A
OUT A
VREF A
VREF B
OUT B
RFB B
A GND
NC
DACADDR — A/B
DAC1WR/ — WR
CS
R19 4.99K
+VA
C22 1000PF
C21 1000PF
C20 0.047UF

IR CURRENT
U4B DG444
R2 100K
R3 1.00K
R4 499K
-VA
U4A DG444
R34 1.00K — -15V
C27 0.047UF
R25 1.00K — o +15V
o +VA
C23 0.047UF
RED CURRENT

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TITLE: SCHEMATIC, MINI SOOM, MP-203

NELLCOR®

DRAWN PSI	DATE 6/22/90
ENG.	DATE
CHECKED	DATE
APPROVED	DATE
SIZE	D
ACAD REF. 2909DACS.DWG	
DRAWING NUMBER	009590
REV	A/12
SHEET 8 OF 7	

UNLESS OTHERWISE NOTED: DIMENSIONAL TOLERANCES — DEC. ±/— FRAC. ±/— ANG. ±/— — SCALE —

CPU

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
	SEE SHEET 1		

U16 74HC164 — A, B, CLK, CLR, QA–QH → DACBUS0–DACBUS7

DACBUS[0..7] → DACADDR, DAC1VR/, DAC2VR/, SLEEP/, ADCCHN

VCC, VCCO

C19 0.047UF, C42 0.047UF, C45 0.047UF, C46 0.047UF

R30 10, C30 0.047UF, C25 0.047UF, GND

C24 22PF, Y1 11.0592MHz, C39 22PF

U5 80C552

XTAL1, XTAL2, EA, PWM0, PWM1, VDD, VSS, VSS, AVSS, AVDD, AVREF+, AVREF-, STADC

P0.0/AD0 … P0.7/AD7 → AD0–AD7

P1.0/CT0I, P1.1/CT1I, P1.2/CT2I, P1.3/CT3I, P1.4/T2, P1.5/RT2, P1.6/SCL, P1.7/SDA

P2.0/A08 … P2.7/A15 → A8–A15

P5.0/ADC0 … P5.7/ADC7 → W1–W5

P4.0/CMSR0 … P4.7/CMT1

P3.0/RXD, P3.1/TXD, P3.2/INT0, P3.3/INT1, P3.4/T0, P3.5/T1, P3.6/WR, P3.7/RD

RST/EW, NNN CCC 333 238, ALE, PSEN

COMPARE1, COMPARE2, VC[1..5], W[1..5], ADCDATA, ADCSTART/, DATACLK, RESISTORS, SATIN, IRLED/, REDLED/, REDGATE/, IRGATE/, RESET/, TXD, RXD

U11B 74HC32, U11A 74HC32, U11C 74HC32, U11D 74HC32

T5, R46 4.99K, R53 4.99K

U17E 74HC14, U17D 74HC14, U17C 74HC14, U17B 74HC14, U17F 74HC14

R55 1.00M, D4 MMBD6050, T6, C3 0.1UF

ADC[0..7]

U2 74HC373 — D0–D7 → Q0–Q7, DC, G

R22 4.99K

A[0..15]

U6 N27C256/512 — A0–A14, VPP/A15, VCC, GND, CE, OE

R47 0, R52 0, R48 0, R45 0

LOAD R45 AND R47 FOR N27C256
LOAD R48 AND R52 FOR N27C512

LOAD R54 FOR 20256 ONLY
DO NOT LOAD R54 FOR 5565

U12 TC5565/20256 — A0–A14, D0–D7, OE, WE, CS, VCC, GND

R54 0

C37 0.047UF, C38 0.047UF

ADC RESET/, CTS/, LEMO/, C-CLOCK

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TITLE: SCHEMATIC, MINI SOOM, MP-203

NELLCOR

DRAWN PSE — DATE 8/22/90

D

009590 — SHEET 7 OF 7 — A/12

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
01	9685	CHG TO AGREE	MA	10/17	BS	JBC
02	9775	ADD R276 TO TABLE	RL	12/93	BS	
03	9760	SEE ECN	JC	1-94	BS	ALC
01	9911	SEE ECN	SAS	3-94	BS	DP

HIGHEST COMP. REF. DESIG.	UNUSED
U67	
R300	R276
C150	
RN10	
Q13	Q6
D66	
J9	

NOTES: UNLESS OTHERWISE SPECIFIED
1. * DENOTES 1/8W, 1% RESISTOR.
2. RESISTANCE IS IN OHMS.
3. ALL RESISTORS ARE 1/4W, 5%.
4. SIGNAL NAMES FOLLOWED BY A * ARE LOW TRUE. EX: RESET*

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DO NOT SCALE - WORK TO DIMENSION SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

D9614C	510/511
NEXT ASSY	USED ON
APPLICATION	

DRAWN R. LIBBY DATE 12-23-93
CHECKED S. STRONG DATE 1/27/93
ENGINEER DATE 1/27/93
APPROVED DATE 1/27/93

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

MATERIAL —
FINISH —

TITLE SCHEMATIC
MAIN BOARD

SIZE	DRAWING NUMBER	REV.
D	9614CC	01
SCALE		SHEET 1 OF 6

BRUNING 73590

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
		SEE ECN				

3/1BD REMOTE ALARM
4/4CD SERIAL.FROM.OXY
4/4BD RESET1
1/5A D0-D7
1/5A A0-A15
1/4DD RD-
1/4BD WR-
1/5CD UART.CS-
1/4DD RESET

Q1 MMBT3906T
R7 10K*
R8 22.1K*
R9 10K*
R10 26.7K*
R11 10K*
R12 10K*
RN6 10K
R289 100*
C147 .01UF
D57 BAT54S
R263 100*
X1 7.3728MHZ
C38 10PF
C39 5PF
U25 82C584

U5 14C89
U7 14C89
U5 14C89
U7 14C89
U5 14C89
R205 1K*
R204 1K*
U6 14C88
U6 14C88
U6 14C88

DCD-1 J2
RD J2
TD J2
DTR- J2
DSR- J2
RTS- J2
CTS- J2
RI J2

SERIAL.TO.OXY 4/4C
SA0-SA03 4/1A
LED.CLK 4/1B
TEST.ECG 6/3C
1.000HZ 6/3D
NEO/ADULT 6/1B
RECORDER.RESP.TRIG 3/1B
RECORDER.ALARM 3/1A
CVA.CLK 5/6C
EEPROM.CS 1/1A
QUART.INT 1/1B
7MHZ 1/1D 3/1D

R207 100K* +5V
U15 74HC14
R13 10K*
U15 74HC14
R14 10K*
R15 10K*
R16 10K*
R208 100K*
U15 74HC14
U15 74HC14
R203 22

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DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES 1 .CHAMFER

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

NEXT ASSY 510/511
USED ON
APPLICATION

DRAWN J.HOELCK DATE 7/23/93
CHECKED S.STRONG DATE 7/27/93
ENGINEER DATE 7/29/93
APPROVED DATE 7/27/93

MATERIAL ~
FINISH ~

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE MODEL 510 MAIN BOARD SCHEMATIC

SIZE D | DRAWING NUMBER 9614CC | REV. 01
SCALE ~ | SHEET 2 of 6

75550 BRUNING

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
		SEE ECN				

6/1D EXT/SPO2
6/1C EXT ANALOG
5/6B ANALOG.HR
5/6B ANALOG.HR.COM
5/6B ECG.NONAGC
5/6B ECG.NONAGC.COM
5/6C ECG.AGC
5/6C ECG.AGC.COM
6/4A ECG.TRIG
2/6C RECORDER.ALARM
2/6C RECORDER.RESP.TRIG
5/6B RESP.FILT
5/6B RESP.FILT.COM
5/6B RESP.UNFILT
5/6B RESP.UNFILT.COM
6/2B QRS
2/1B REMOTE ALARM
4B.6/6D TEST.MODE-
6/6C BATT TEST
5/6A RAWECG
5/3D RAWRESP
5/3D BASE.R
5/1D LEADS.OFF
SHIELD
1/5A D0-D7
1/4D RESET
1/5A A0-A16
1/4D RD-
1/4B WR-
1/5C PPI.CS-
1/1D 7MHZ
2/6D

D59 BAT54S
D60 BAT54S
D58 BAT54S
+5V
R290 100K
C148 .01UF
U27 82C55
NELL.COR.CTS- 4/4C
POWER.OFF 4/4B
R291 680 LUNG* 4/1B
R292 680 HEART* 4/1A
OXY.PROBE.PRESENT 4/4C
NELL.COR.OPT 4/4C
ON.BATT 4/2B
TEST.MODE- 1B.6/6D
LEADS.OFF- 5/1D
PACEMAKER 5/1D
SIL.ID- 4/1A
SPO2.DISPLAY- 3/3A
RN5 10K
U35 74HC163
U34 74HC4040
U47 74HC163
U15 74HC14
R264 1K
SERIAL.BAUD 1/1B
960HZ 1/1B
2880HZ 1/1B
5/1D
NOTCH.CLK 5/1D
U50 EP320
A/D.CLK 6/6C
T2.CLK 1/1B

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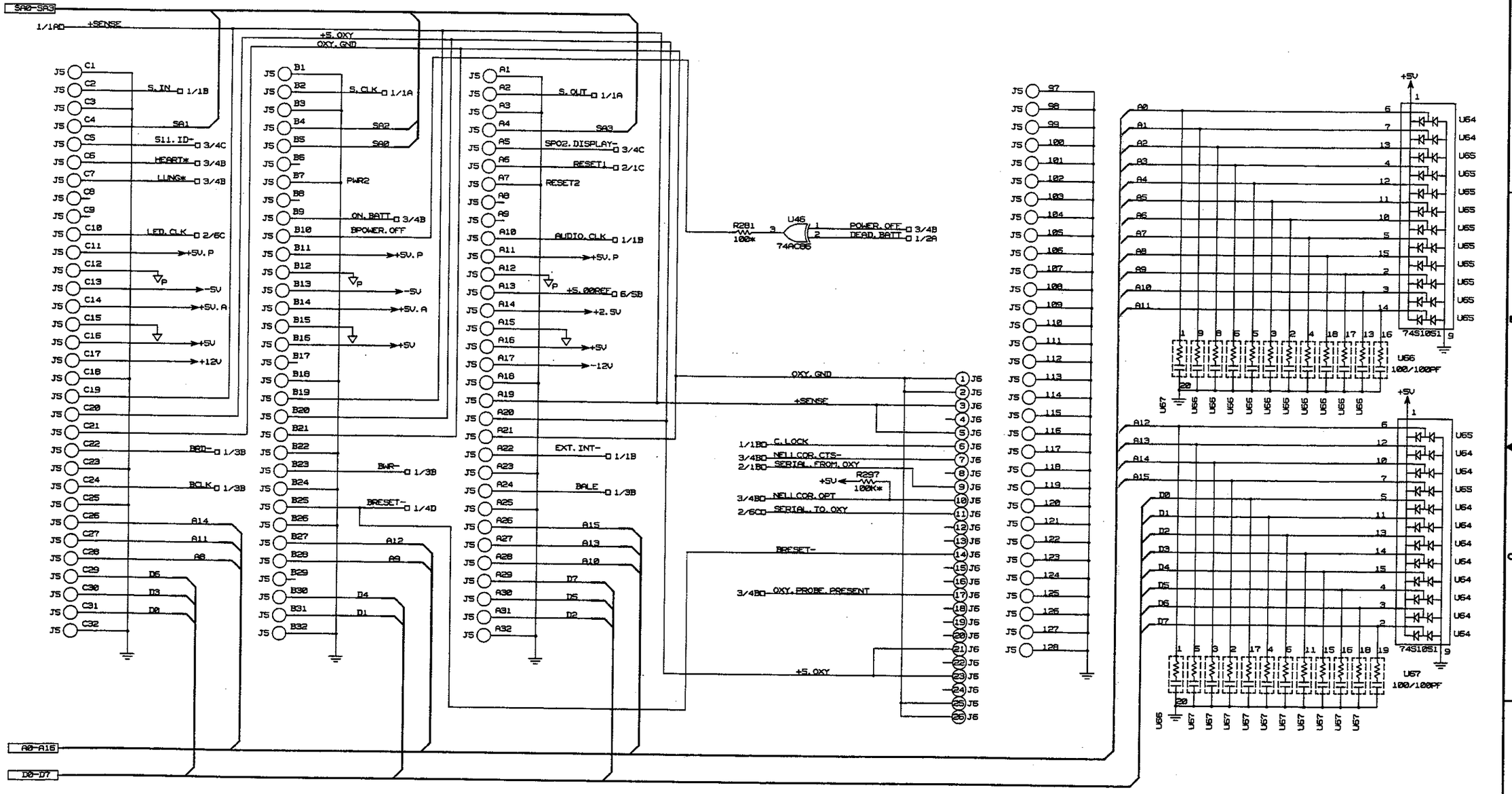
DO NOT SCALE - WORK TO DIMENSIONS / NOMS. REMOVE BURRS, BREAK SHARP EDGES & CORNERS	DRAWN J. HOELCK 7/23/93 · CHECKED S. STRONG 7-27-93 · ENGINEER T. Kong 7-27-93 · APPROVED T. Kong 7-27-93
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES · FRACTIONS ± · 2 PLACE DECIMALS ± · 3 PLACE DECIMALS ± · ANGLES ±	COROMETRICS® MEDICAL SYSTEMS, INC. BARNES INDUSTRIAL PARK WALLINGFORD, CONNECTICUT
NEXT ASSY 510/511 · USED ON · APPLICATION	TITLE MODEL 510 MAIN BOARD SCHEMATIC
MATERIAL	FINISH
SIZE D · DRAWING NUMBER 9614CC · REV. 01 · SCALE ~ · SHEET 3 OF 6	

DRAWING 75550

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
		SEE ECN				



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DO NOT SCALE - WORK TO DIMENSIONS SHOWN REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

NEXT ASSY 50511 USED ON
APPLICATION

DRAWN	J.HOELCK	DATE 7/23/93
CHECKED	S.STRONG	DATE 7/27/93
ENGINEER		DATE 7/27/93
APPROVED		DATE 7/27/93

MATERIAL | FINISH

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE MODEL 510 MAIN BOARD SCHEMATIC

SIZE	DRAWING NUMBER	REV.
D	9614CC	01

SCALE — SHEET 4 of 6

BRUNING 75550

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
.	. . .	SEE ECN .				

ISOLATION BARRIER

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REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

NEXT ASSY: 510/511 — USED ON: APPLICATION

DRAWN	J. HOELCK	DATE 7/23/93
CHECKED	S. STRONG	DATE 7-27-93
ENGINEER		DATE 7.27.93
APPROVED		DATE 7-27-93

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

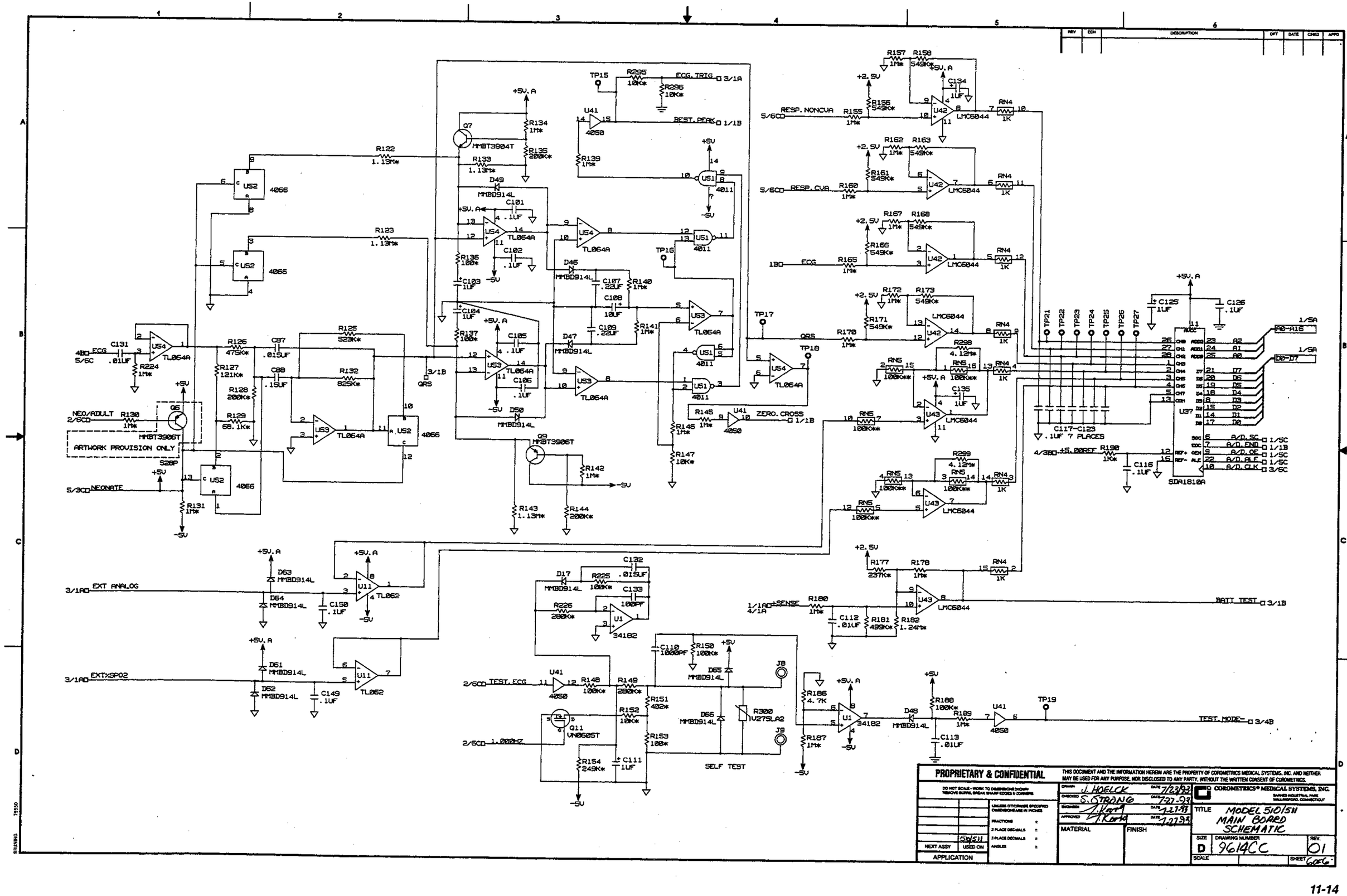
TITLE: MODEL 510 MAIN BOARD SCHEMATIC

MATERIAL: ~ — FINISH: ~

SIZE: D — DRAWING NUMBER: 9614CC — REV.: 01

SCALE: ~ — SHEET 5 of 6

BRUNING 75550


REV
ECN
DESCRIPTION
DFT
DATE
CHKD
APPD
+5V.A
+5V
-5V
+2.5V
R122 1.13M*
R123 1.13M*
R125 523K*
R126 475K*
R127 121K*
R128 200K*
R129 68.1K*
R130 1M*
R131 1M*
R132 825K*
R133 1.13M*
R134 1M*
R135 200K*
R136 100*
R137 100*
R139 1M*
R140 1M*
R141 1M*
R142 1M*
R143 1.13M*
R144 200K*
R145 1M*
R146 1M*
R147 10K*
R148 100K*
R149 200K*
R150 100K*
R151 402*
R152 10K*
R153 100*
R154 249K*
R155 549K*
R156 1M*
R157 1M*
R158 549K*
R159 1M*
R160 1M*
R161 549K*
R162 1M*
R163 549K*
R165 1M*
R166 549K*
R167 1M*
R168 549K*
R169 1M*
R170 1M*
R171 549K*
R172 1M*
R173 549K*
R176 1M*
R177 237K*
R178 1M*
R180 1M*
R181 499K*
R182 1.24M*
R185 4.7K
R186 4.7K
R187 1M*
R188 100K*
R189 1M*
R190 1M*
R295 10K*
R296 10K*
R298 4.12M*
R299 4.12M*
R300 V275LA2
C101 .1UF
C102 .1UF
C103 1UF
C104 1UF
C105 .1UF
C106 .1UF
C107 .22UF
C108 10UF
C109 .22UF
C110 1000PF
C111 1UF
C112 .01UF
C113 .01UF
C115 .1UF
C116 .1UF
C117-C123 .1UF 7 PLACES
C125 1UF
C126 .1UF
C131 .01UF
C132 .015UF
C133 100PF
C134 1UF
C135 1UF
C149 .1UF
C150 .1UF
RN4 1K
RN5 100K*
U1 34182
U11 TL062
U41 4050
U42 LMC6044
U43 LMC6044
U51 4011
U53 TL064A
U54 TL064A
U57 SDA1810A
US1 4011
US2 4066
US3 TL064A
US4 TL064A
Q5 MMBT3906T
Q7 MMBT3904T
Q9 MMBT3906T
Q11 VN0605T
D45 MMBD914L
D46 MMBD914L
D47 MMBD914L
D48 MMBD914L
D49 MMBD914L
D50 MMBD914L
D61 MMBD914L
D62 MMBD914L
D63 MMBD914L
D64 MMBD914L
D65 MMBD914L
D66 MMBD914L
D17 MMBD914L
J8
J9
TP15
TP16
TP17
TP18
TP19
TP21
TP22
TP23
TP24
TP25
TP26
TP27
ECG
RESP. NONCVA
RESP. CVA
ECG
QRS
ZERO. CROSS
NEO/ADULT
ARTWORK PROVISION ONLY
S28P
NEONATE
EXT ANALOG
EXT SP02
TEST ECG
1.000HZ
SELF TEST
+SENSE
BATT TEST
TEST MODE
ECG. TRIG
BEST PEAK
A0-A16
D0-D7
A/D SC
A/D END
A/D OE
A/D ALE
A/D CLK
+5.00REF
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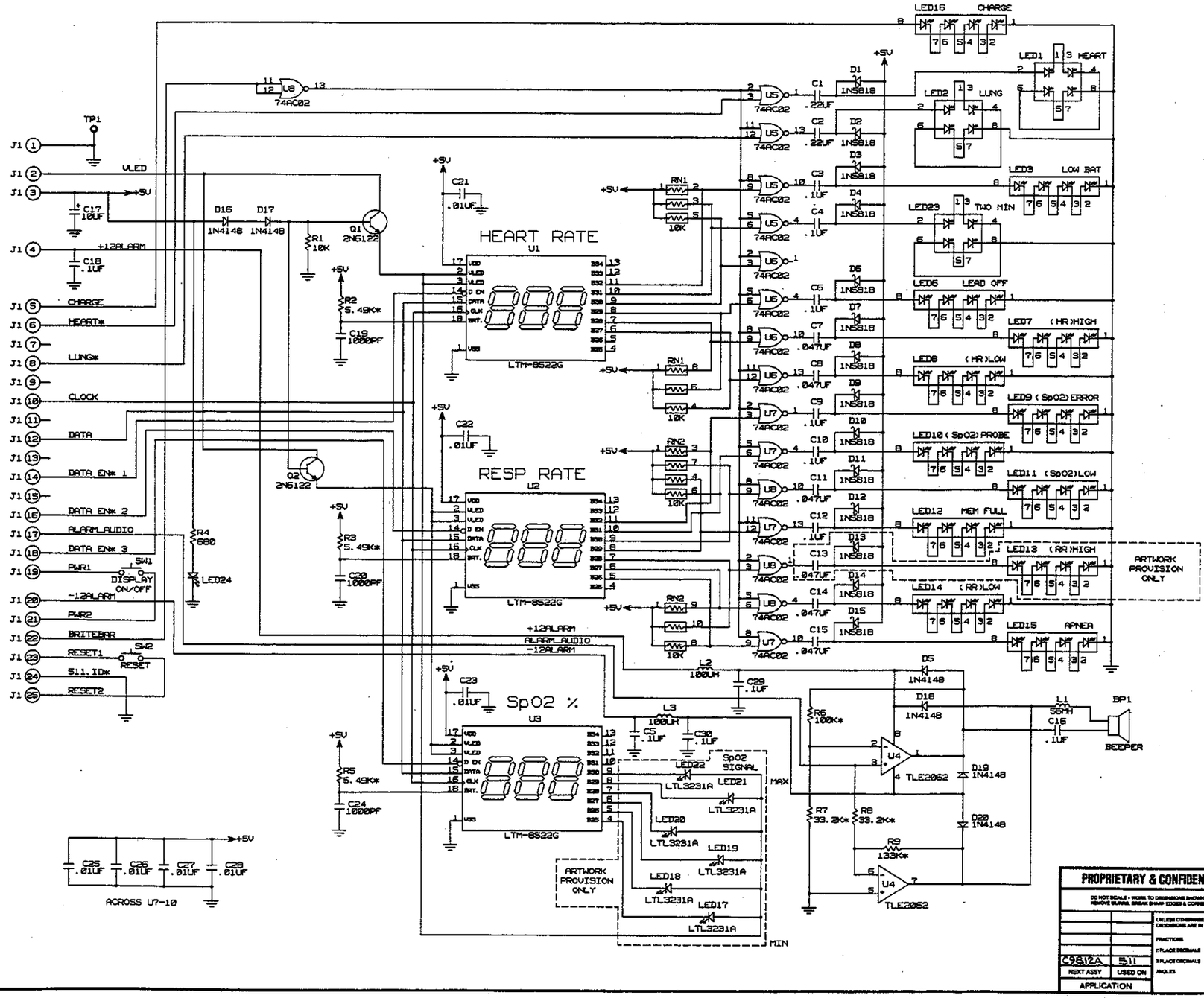
REMOVE BURRS, BREAK SHARP EDGES & CORNERS
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±
NEXT ASSY
USED ON
APPLICATION
DRAWN J. HOELCK 7/23/93
CHECKED S. STRONG 7-27-93
ENGINEER 7-27-93
APPROVED 7-27-93
COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT
TITLE MODEL 510/511 MAIN BOARD SCHEMATIC
MATERIAL
FINISH
SIZE D
DRAWING NUMBER 9614CC
REV. 01
SCALE
SHEET 6 OF 6
73550

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
01	9711	RMV JMP1	RL	12-93	BS	



NOTES: UNLESS OTHERWISE SPECIFIED
1. * DENOTES 1/8W, 1% RESISTOR.
2. RESISTANCE IS IN OHMS.
3. ALL RESISTORS ARE 1/4W, 5%.
4. SIGNAL NAMES FOLLOWED BY A * ARE LOW TRUE. EX: RESET*

HIGHEST COMP. REF. DESIG.	UNUSED
U8	
R9	
C30	
D17	
LED24	LED4, 5
SW2	
RN2	

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REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± 1/64
2 PLACE DECIMALS ± .01
3 PLACE DECIMALS ± .005
ANGLES ± 1°

C9812A	511
NEXT ASSY	USED ON
APPLICATION	

DRAWN R.LIBBY DATE 12-1-93
CHECKED S.STRONG DATE 12-23-93
ENGINEER DATE 1-24-94
APPROVED DATE 1-24-94

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE SCHEMATIC
DISPLAY PANEL

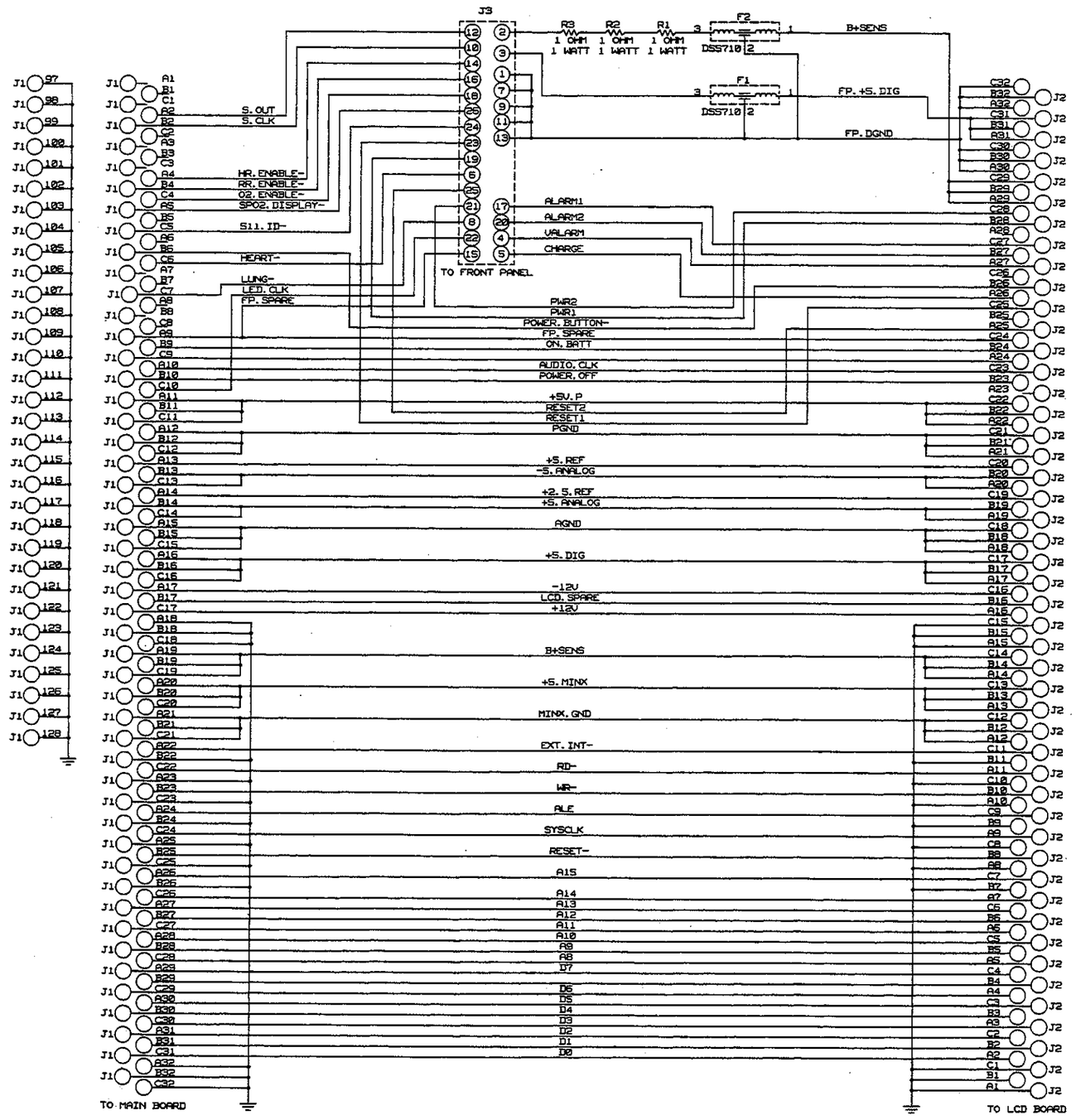
MATERIAL ~ FINISH ~

SIZE	DRAWING NUMBER	REV.
D	9812AC	01

SCALE SHEET 1 of 1

BRUNING 75550

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
01	9501	SEE ECN	PL	11.93	BS	AK



HIGHEST COMP. REF. DESIG.	UNUSED
J3	
R3	
F2	

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

C9966A | S11
NEXT ASSY | USED ON
APPLICATION

DRAWN R. LIBBY 11-30-93
CHECKED S. Stuerup 12/8/93
ENGINEER T. Berning 12/15/93
APPROVED T. Berning 12/15/93
MATERIAL —
FINISH —

CORDMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE SCHEMATIC
INTERCONNECT BD

SIZE D | DRAWING NUMBER 9966AC | REV. 01
SCALE | SHEET 1 OF 1

BRUNING 73550

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
00	9457	INITIAL RELEASE	J.C.H.	8/24/93	BS	J.K.
01	9676	CHG TO AGREE	JH	1/4/93	BS	JH
02	9675	SEE ECN	RL	1-94	BS	J.K.
CC 05	9911	CHG R40 FROM 4.7M to 1M#	JAS	3/94	BS	D.L.

MEMORY MAP

0900h - (Rd): STATUS REG
- BIT 6 - 1 = LEFT BUTTON PUSHED
- BIT 5 - 1 = MIDDLE BUTTON PUSHED
- BIT 4 - 1 = RIGHT BUTTON PUSHED
- BIT 3 -
- BIT 2 - POWER BUTTON
- BIT 1 - RESET BUTTON
- BIT 0 -

0900h - (Wr): POWER CONTROL REG
- BIT 3 -
- BIT 2 -
- BIT 1 - 1 = POWER OFF

0901h - (Rd): MEMORY CARD STATUS REG
0901h - (Wr):
0908h - (Wr): AUDIO LEVEL CONTROL
0910h - (R/W): LCD BASE ADDRESS
0920h - (R/W): WINDOW CNTL REG 0
0921h - (R/W): WINDOW CNTL REG 1
0928h - (Rd): MEMORY CARD INTERNAL REG

NOTE: FOR '245, DIR= HIGH TRANSFERS A TO B

T (su) RS,R/W TO E = 140ns
T (w) MIN WIDTH OF E = 450ns
T (h) RS,R/W, DATA AFTER E = 20ns
T (acc) E TO DATA VALID (read) = 320ns
T (su) DATA (write) TO E (high) = 195ns
T (cyc) E (HIGH) TO E (HIGH)

A1 (HIGH = DATA XFR LOW = INSTRUCTION XFR)
A0 (HIGH = READ DATA FROM LCD)

VOLUME CONTROL

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D100BOA 510/511
NEXT ASSY | USED ON
APPLICATION

DRAWN J. HOELCK 8/20/93
CHECKED S. STRONG 8-23-93
ENGINEER 8-24-93
APPROVED 8-24-93

COROMETRICS® MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT

TITLE: MODEL 510/511 LCD BOARD SCHEMATIC

MATERIAL ~ | FINISH ~

SIZE D | DRAWING NUMBER 10080CC | REV. 00
SCALE ~ | SHEET 1 of 4

BRUNING 75550

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD

A0-A15
D0-D7
N12-N23

U14 74HC245
U23 74HC244

IOCS - * (RD- + WR-)
1/3AD WR/RD-
RD - * IOCS - * A0

U17 EP610
U16 EP610
U15 EP320

CARD_CS-
WCR0.HI-
WCR0.LO-
WCR1.HI-
WCR1.LO-
TEST.ENABLE-

CARD.CS- = A15- * A14- * A13

WCR1.LO - =
IOCS - * A1 * A0 - * WR-

A15	A14	A13	A12	
0	0	1	0	WINDOW0 = 2000 - 2FFFH
0	0	1	1	WINDOW1 = 3000 - 3FFFH

S20 - WCR0 - LO
S21 - WCR0 - HI
S22 - WCR1 - LO
S23 - WCR1 - HI

IOCS DECODES S20h - S27H

BUF_CARD_CS- 3/1B
BUF_RD- 3/1B
BUF_WR- 3/1B
CARD_CS- 3/1A

D10 D11 D12 D13 1N4148

DAN801 DAP801 U8 U9 U11 U12

100/100PF
ARTWORK PROVISION ONLY

DAN801 DAP801 U18 U19

INTERNAL RAM PAGES = F00 - FFF

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FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

NEXT ASSY | USED ON
APPLICATION

DRAWN	J. HOELCK	DATE 8/24/93
CHECKED	S. STRONG	DATE 8-24-93
ENGINEER	J. Koy	DATE 8-24-93
APPROVED	J. Koy	DATE 8-24-93

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE MODEL 510/511
LCD BOARD
SCHEMATIC

MATERIAL ~ | FINISH ~

SIZE	DRAWING NUMBER	REV.
D	10080CC	00

SCALE ~ SHEET 2 of 4

BRUNING 75550

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD

D0-D7
A0-A11
RN1 100K
+5V
CARD_CS- 2/2B
RN5 100K
U5 74HC541
BUD1
BUD2
WP
BSY-
CD1/
CD2/
U6 74HC245
1/4A0 CARD_STATUS_CS-
1/3A0 WR/RD-
2/5B0 BUF_CARD_CS-
2/5B0 BUF_RD-
2/5B0 BUF_WR-
N12-N23
DAN801
DAP801
1/4B0 CARD_REG-
C48 .01UF
C49 .01UF
C50 .01UF
C51 .01UF
C52 .01UF
C53 .01UF
C54 .01UF
C55 .01UF
C56 .01UF
C57 .01UF
C58 .01UF
C59 .01UF
C60 .01UF
C61 .01UF
C62 .01UF
C63 .01UF
C64 .01UF
C65 .01UF
C66 .01UF
C67 .01UF
C68 .01UF
C69 .01UF
C70 .01UF
C71 .01UF

GND	1	J8	J7	1	J5	1	J5
GND	1	J8	J7	35	J5	2	J5
D3	18	J8	J7	36	J5	3	J5
CD1/	16	J8	J7	37	J5	4	J5
D4	2	J8	J7	38	J5	5	J5
D11	19	J8	J7	39	J5	6	J5
D5	3	J8	J7	40	J5	7	J5
D12	20	J8	J7	41	J5	8	J5
D6	4	J8	J7	42	J5	9	J5
D13	21	J8	J7	43	J5	10	J5
D7	5	J8	J7	44	J5	11	J5
D14	22	J8	J7	45	J5	12	J5
CE1/	4	J8	J7	46	J5	13	J5
D15	23	J8	J7	47	J5	14	J5
A10	7	J8	J7	48	J5	15	J5
CE2/	24	J8	J7	49	J5	16	J5
OE/	8	J8	J7	50	J5	17	J5
RFSH/	25	J8	J7	51	J5	18	J5
A11	9	J8	J7	52	J5	19	J5
A9	26	J8	J7	53	J5	20	J5
A8	10	J8	J7	54	J5	21	J5
N-A17	27	J8	J7	55	J5	22	J5
N-A13	11	J8	J7	56	J5	23	J5
N-A18	28	J8	J7	57	J5	24	J5
N-A14	12	J8	J7	58	J5	25	J5
N-A19	13	J8	J7	59	J5	26	J5
ME/	29	J8	J7	60	J5	27	J5
N-A20	14	J8	J7	61	J5	28	J5
RDY/BSY/	31	J8	J7	62	J5	29	J5
N-A21	15	J8	J7	63	J5	30	J5
VCC	32	J8	J7	64	J5	31	J5
VCC	16	J8	J7	65	J5	32	J5
VPP1	33	J8	J7	66	J5	33	J5
VPP2	17	J8	J7	67	J5	34	J5
N-A16	34	J8	J7	68	J5		
N-A22							
N-A15							
N-A23							
N-A12							
A24							
A7							
A25							
A6							
A5							
A4							
A3							
REG/							
A1							
BUD2							
A0							
BUD1							
D0							
D8							
D1							
D9							
D2							
D10							
WP							
CD2/							
GND							
GND							

A10 A11 A9 A8
N-A17 N-A13 N-A18 N-A14
N-A19 N-A20 N-A21 N-A16 N-A22 N-A15 N-A23 N-A12
A7 A6 A5 A4 A3 A2 A1 A0

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

NEXT ASSY | USED ON
APPLICATION

DRAWN	J. HOELCK	DATE 8/24/93
CHECKED	S. STRONG	DATE 8-24-93
ENGINEER	J. Kent	DATE 8-25-93
APPROVED	J. Kent	DATE 8.26.93

MATERIAL | FINISH

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE: MODEL 510/511 LCD BOARD SCHEMATIC

SIZE	DRAWING NUMBER	REV.
D	10080CC	00

SCALE — SHEET 3 of 4

BRUNING 75550

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
03						

J1 1 2 3 4 5 6 — CASE

F1 4A

C17 .1UF · RV1 V33MA1B · D14 1N5624 · C18 .1UF · T2 · C19 .1UF

C13 .1UF · C14 100PF · C15 100PF · C16 .1UF

U35 MC34063 — C20 470UF · R15 100K* · R16 4.7K · Q1 2N3904 · R18 100K* · D15 1N4148 · R17 470 · Q2 RFP30P05 · C21 1000PF · D16 1N5818 · C22 100PF · C23 68UF · R25 47K · L2 120UH · D19 1N5624

U37 LM385Z-2.5 · R19 4.99K* · R20 4.99K* · R21 191K* · R22 47K · C26 1UF · C27 .22UF · C28 .01UF · R23 2.2K · R24 100K* · U30 TL064A

U30 TL064A · D22 1N4148 · R36 470 · R37 22M · R38 22M · C33 .01UF · C30 1UF · R39 3.32M* · R40 1M* · U30 TL064A

CHARGER INDICATOR · U36 LM317LZ · R41 301* · CHARGE → 1/2C

B+SENS → 1/2B

T1 FLYBACK TRANSFORMER

D29 1N4148 · R42 1M* · D24 1N4933 · C34 1SUF · +12V

R43 10K* · C36 .1UF · D25 1N4148 · D26 1N5818 · C35 1SUF · L3 100UH · -5V

D27 1N4148 · D28 1N4933 · C37 1SUF · R44 499K* · -12V

D29 1N4148

Q4 IRF9531 · U29 4025 · C31 .01UF · C32 .01UF · OFF · POWER SW. F/F

LT1172CN8 · U32 · C38 1SUF · R45 301K* · R47 100K* · C39 1UF · Q5 2N3904 · R48 124K* · TL062B · U34 · R49 470 · D30 1N4148 · R45 475K*

Q5 IRF9531 · L1 100UH · +5. ANALOG → 1/2C · +5V · C47 33UF

R50 221 · Q7 2N7000 · C44 100PF · C45 33UF

R51 100K* · C42 1UF · C43 1UF · U34 TL062B · RN5 100K · C46 68UF · R52 10K* · -12V

U33 AD680JT · C40 .1UF · C41 .1UF · +2.5. REF → 1/2C 1/6D

R31 .1 OHM 3W 1% · C25 68UF · F2 4A · D21 1N5624 · B+ J2 1 · B+SENS J2 4 · B- J2 2 · B- J2 3 · BATTERY CONNECTOR

R26 10K · TRIM · CW CHARGE VOLTAGE · R28 49.9K* · Q3 2N7000 · R29 150K* · R30 100K* · D20 1N4148

1/2DD PWR1 · R32 10K* · R34 1K*

1/2DD PWR2

1/2CD POWER. BUTTON · R53 100K* · +5V · Q8 2N3904 · R54 1M* · R33 1M*

1/6CD POWER. OFF

J6 · MTG1 MTG2 MTG3 MTG4 · GND

NOTE: EARTH GROUND TIED TO CHASSIS AT ONE POINT

U4 74HC00 · U4 74HC00 · U29 4025 · U30 TL064A

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1. * DENOTES 1/8W, 1% RESISTOR.
2. RESISTANCE IS IN OHMS.
3. ALL RESISTORS ARE 1/4W, 5%.
4. SIGNAL NAMES FOLLOWED BY A * ARE LOW TRUE. EX: RESET*

HIGHEST COMP. REF. DESIG.	UNUSED
RS4	
C71	
U37	U20
D30	
Q8	
J8	
RN5	

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±
NEXT ASSY 510/511 · USED ON
APPLICATION

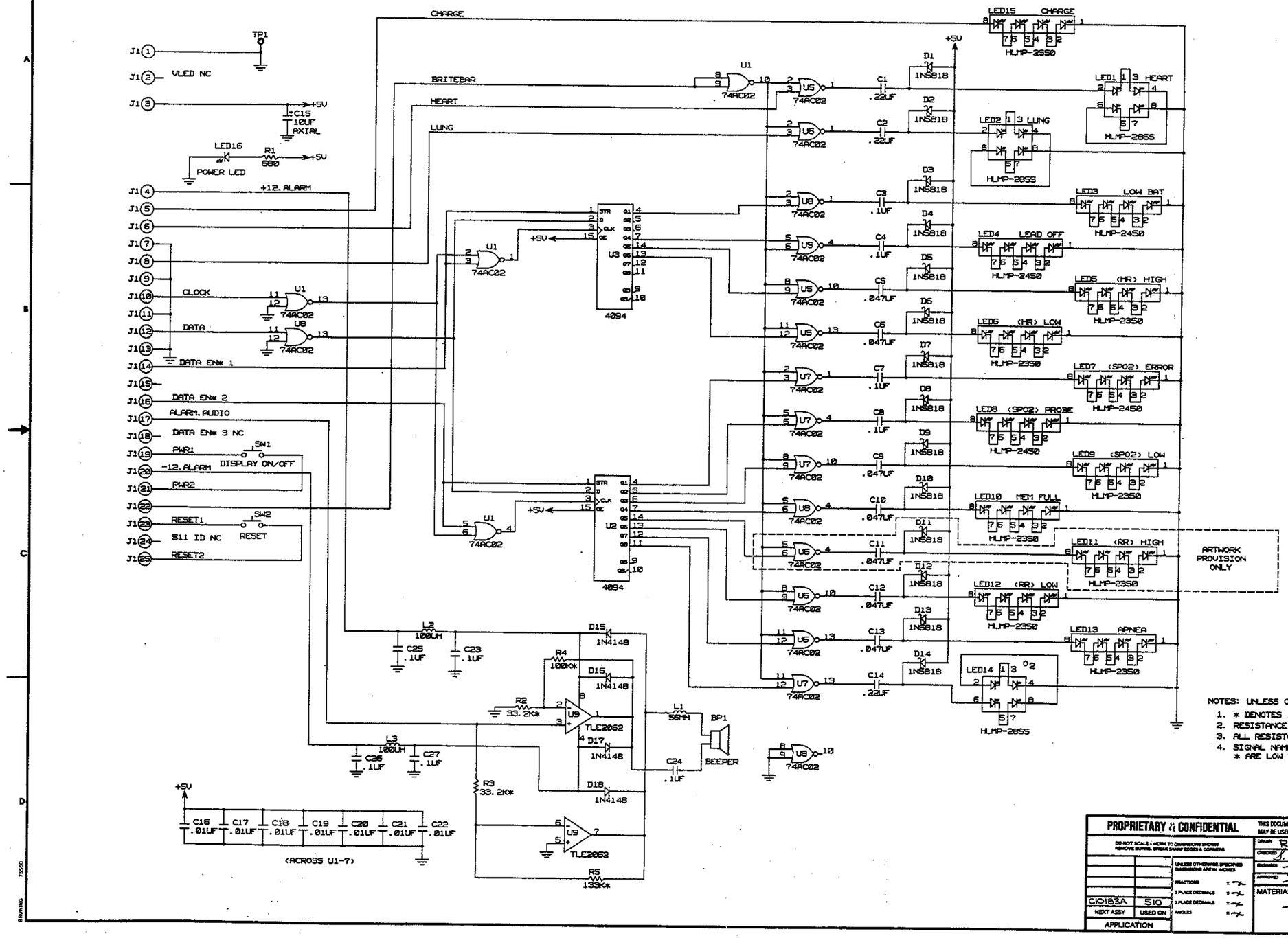
DRAWN J. HOELCK 8/24/93
CHECKED S.STRONG 8/24/93
ENGINEER 8.25.93
APPROVED J. Kopp 8.25.93
MATERIAL · FINISH

COROMETRICS® MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT

TITLE MODEL 510/511 LCD BOARD SCHEMATIC
SIZE D · DRAWING NUMBER 10080CC · REV. 00
SCALE X · SHEET 4 OF 4

BRUNING 75550

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
00	9494	NEW RELEASE	RV	8.93	BS	
01	9728	EMV JMP1	RL	10.93	BS	



NOTES: UNLESS OTHERWISE SPECIFIED
1. * DENOTES 1/8W, 1% RESISTOR.
2. RESISTANCE IS IN OHMS.
3. ALL RESISTORS ARE 1/4W, 5%.
4. SIGNAL NAMES FOLLOWED BY A * ARE LOW TRUE. EX: RESET*

HIGHEST COMP. REF. DESIG.	UNUSED
C27	
R5	
U9	
TP3	
SW2	
LED16	

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DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

C10183A	510
NEXT ASSY	USED ON
APPLICATION	

DRAWN R. LIBBY DATE 12-16-93
CHECKED J. Strong DATE 9-8-93
ENGINEER T. Brady DATE 9-9-93
APPROVED T. Brady DATE 9-9-94

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK WALLINGFORD, CONNECTICUT

TITLE SCHEMATIC
510 DISPLAY PANEL

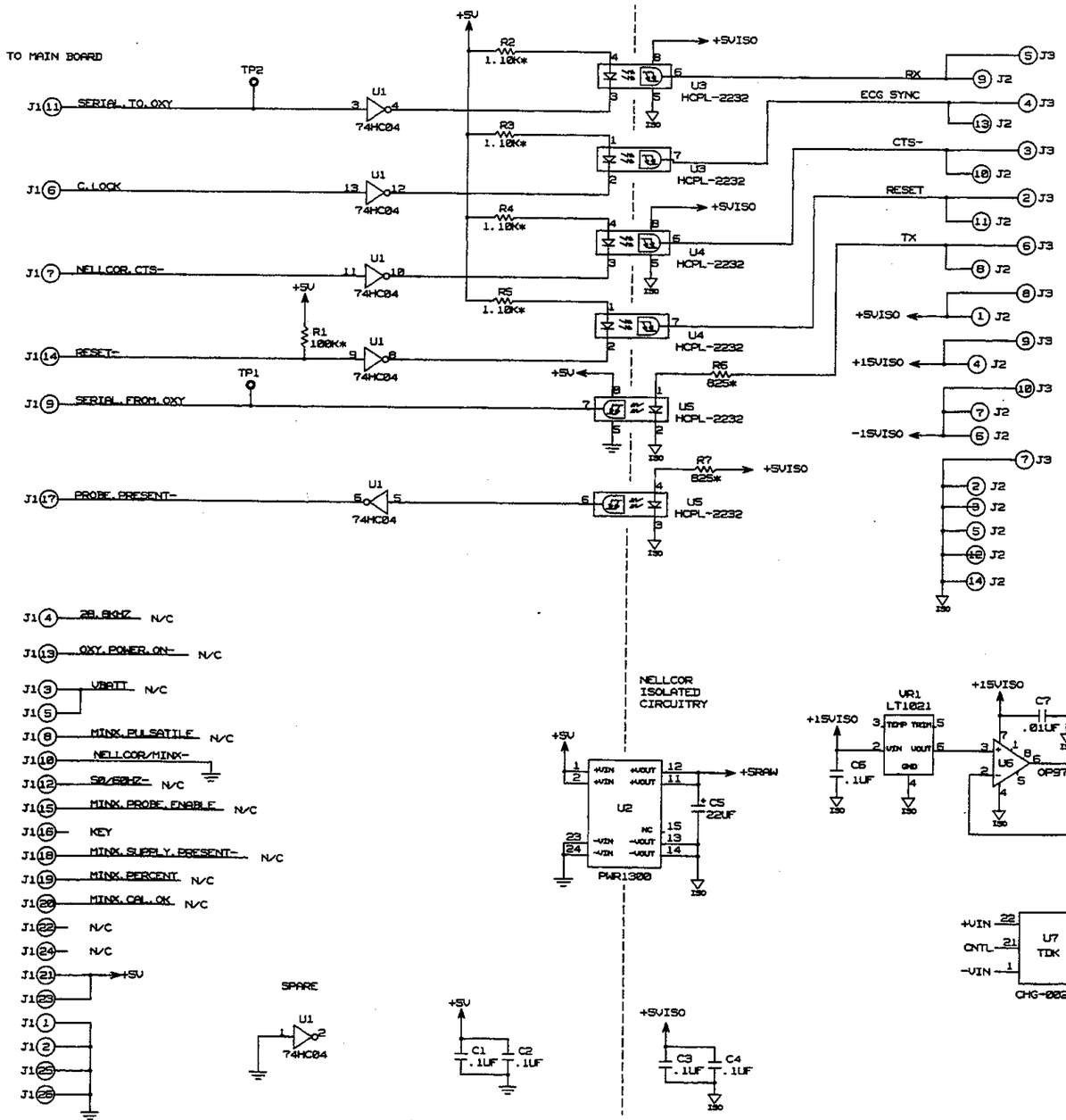
MATERIAL | FINISH

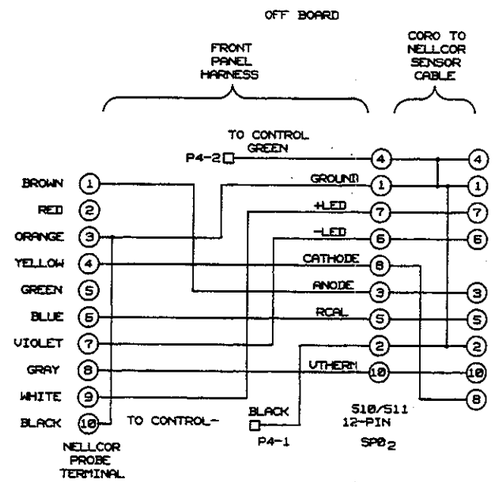
SIZE	DRAWING NUMBER	REV.
D	10183AC	01

SCALE | SHEET 1 OF 1

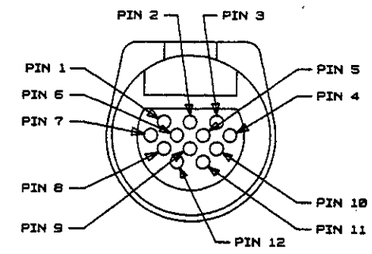
DRAWING 75550

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
00	9431	INITIAL RELEASE	J.C.H	8/3/93	BS	J.E.
01	9999	CHG TO AGREE	SAS	9/94	BS	





BLACK	2
WHITE	7
GRAY	10
VIOLET	6
BLUE	5
GREEN	4
YELLOW	8
ORANGE	1
RED	11
BROWN	3
COLOR	J2
WIRING CHART	



SP02 FRONT PANEL CONNECTOR VIEWED FROM FRONT

NOTES: UNLESS OTHERWISE SPECIFIED
1. * DENOTES 1/8W, 1% RESISTOR.
2. RESISTANCE IS IN OHMS.
3. ALL RESISTORS ARE 1/4W, 5%.
4. SIGNAL NAMES FOLLOWED BY A * ARE LOW TRUE. EX: RESET*

HIGHEST COMP. REF. DESIG.	UNUSED
C10	
J4	
Q1	
R8	
U7	
VR1	

THESE OPTIONS PROVIDE FOR 3 MANUFACTURERS OF U7

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DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±
NEXT ASSY 510/511E
USED ON
APPLICATION

DRAWN	J. HOELCK	DATE 8/3/93
CHECKED	S. STRONG	DATE 8/3 /93
ENGINEER	T. Kim	DATE 9/5/93
APPROVED	T. Kim	DATE 9/5/93

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK WALLINGFORD, CONNECTICUT

MATERIAL ~ FINISH ~

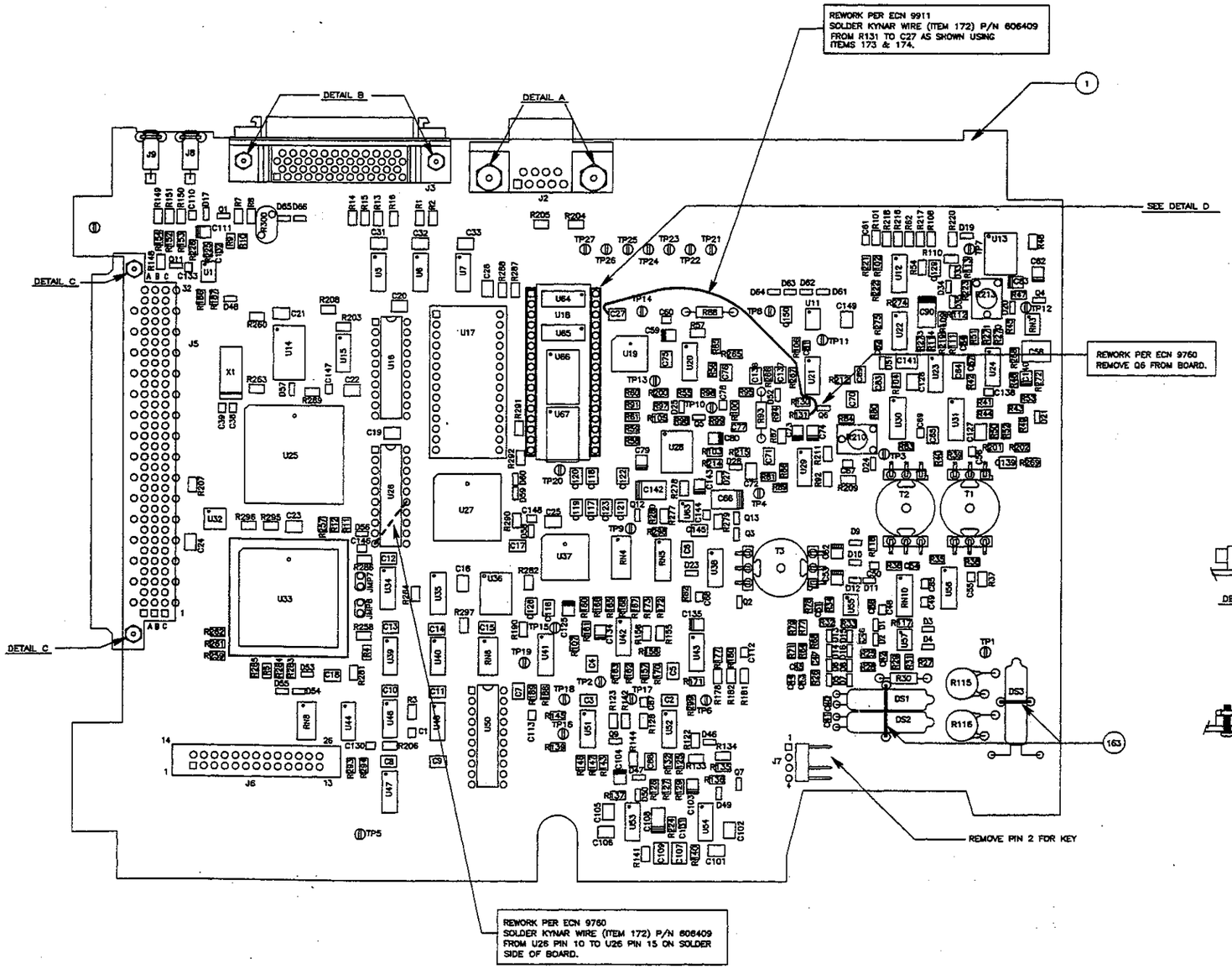
TITLE MODEL 510 NELCOR OPTION BOARD SCHEMATIC

SIZE D | DRAWING NUMBER 10944AC | REV. 01

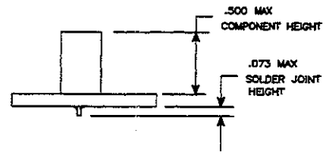
SCALE ~ | SHEET 1 of 1

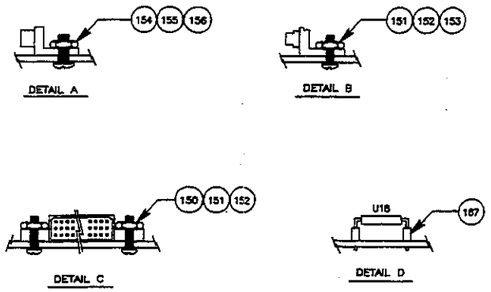
BRUNING 75550

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
01	9911	SEE ECN	[illegible]	3/94	BS	DL


REWORK PER ECN 9911
SOLDER KYNAR WIRE (ITEM 172) P/N 606409
FROM R131 TO C27 AS SHOWN USING
ITEMS 173 & 174.
DETAIL A
DETAIL B
DETAIL C
SEE DETAIL D
REWORK PER ECN 9760
REMOVE Q6 FROM BOARD.
REMOVE PIN 2 FOR KEY
REWORK PER ECN 9760
SOLDER KYNAR WIRE (ITEM 172) P/N 606409
FROM U26 PIN 10 TO U26 PIN 15 ON SOLDER
SIDE OF BOARD.

NOTES:
1—OBSERVE POLARITY AND ORIENTATION MARKING OF ALL COMPONENTS.
2—INSERTS COMPONENTS FULLY INTO BOARD.
3—FOR SCHEMATICS DRAWING SEE 9814CE
4—STORE IN ANTISTATIC BAG. P/N 410080 – NOT SHOWN.
5—FOR PARTS LIST SEE P/L 9814C





REWORK

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DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± [illegible]
2 PLACE DECIMALS ± [illegible]
3 PLACE DECIMALS ± [illegible]
ANGLES ± [illegible]

10324 TAB	
10323 TAB	
10322 TAB	
10321 TAB	510/511
NEXT ASSY	USED ON

APPLICATION

DRAWN S. Stone DATE 3-18-94
CHECKED B. SHOTWELL DATE 4-25-94
ENGINEER [illegible] DATE 4/25/94
APPROVED [illegible] DATE 4/25/94

MATERIAL X
FINISH X

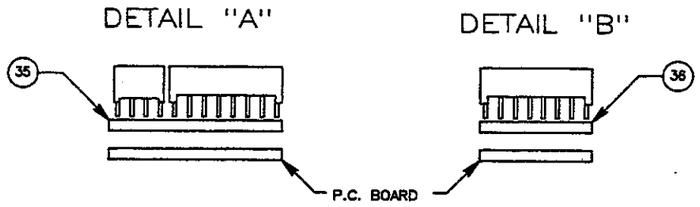
COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

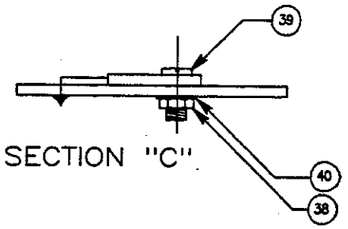
TITLE ASSEMBLY DWG
510/511 MAIN BOARD

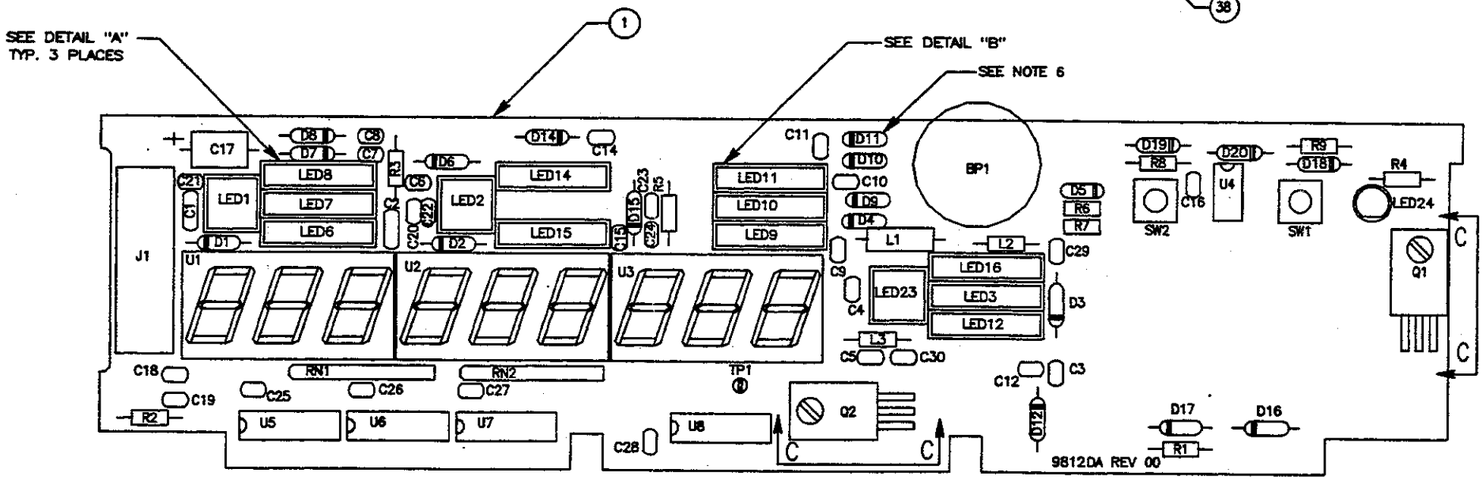
SIZE D | DRAWING NUMBER 9614C | REV. 01
SCALE 1.75 | SHEET 1 OF 1

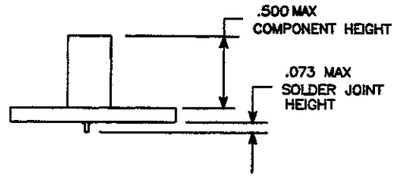
BRUNING 75550

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
01	9711	RMV JMP1	PL	11-93	BS	









NOTES:
1—OBSERVE POLARITY AND ORIENTATION MARKING OF ALL COMPONENTS.
2—INSERT COMPONENTS FULLY INTO BOARD.
3—FOR SCHEMATIC DRAWINGS SEE 9812AC.
4—STORE IN ANTISTATIC BAG. P/N 410080 – NOT SHOWN.
5—FOR PARTS LIST SEE P/L 9812A.
6—INSTALL D4,D5,D9,D10,D11,R6 AND R7 WITH LEADS BENT UNDER THIER BODY.

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DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± X
2 PLACE DECIMALS ± X
3 PLACE DECIMALS ± X
ANGLES ± X

NEXT ASSY	USED ON
C10320A	511

APPLICATION

DRAWN	R. LIBBY	DATE 12-1-93
CHECKED	S STRONG	DATE 8-23-93
ENGINEER		DATE 8-24-93
APPROVED		DATE 8-24-93

MATERIAL X
FINISH X

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

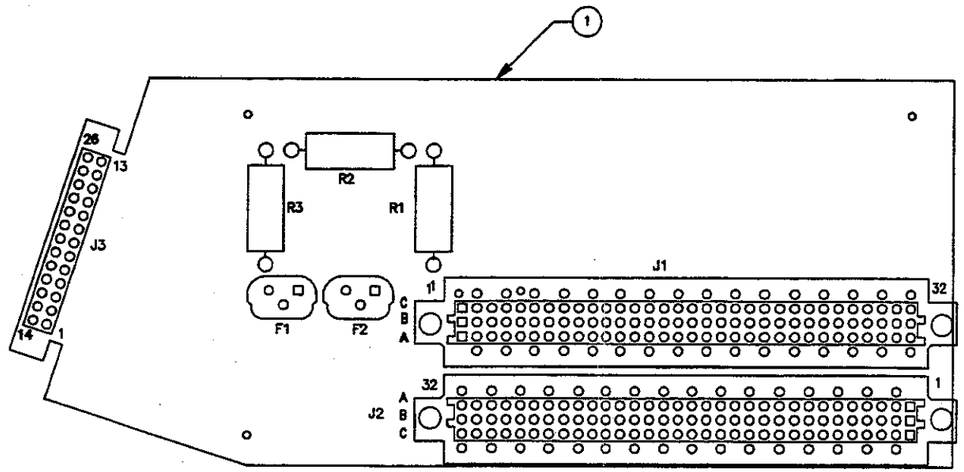
TITLE ASSY DWG
DISPLAY PANEL

SIZE	DRAWING NUMBER	REV.
C	9812A	01

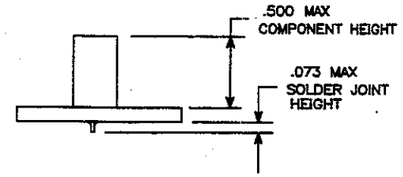
SCALE 1.5 SHEET 1 OF 1

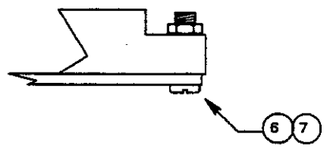
BRUNING 7124 FORM # 8235

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
01	9501	SEE ECN	RL	10-93	BS	J.K.



NOTES:
1–OBSERVE POLARITY AND ORIENTATION MARKING OF ALL COMPONENTS.
2–INSERT COMPONENTS FULLY INTO BOARD.
3–FOR SCHEMATIC DRAWINGS SEE D9966AC.
4–STORE IN ANTISTATIC BAG. P/N 410080 – NOT SHOWN.
5–FOR PARTS LIST SEE F/L 9966A.





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DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

NEXT ASSY	USED ON
D10324*	511/511E
D10322*	510/510E

APPLICATION

DRAWN	R. LIBBY	DATE 10-13-93
CHECKED	S. Strong	DATE 7/28/93
ENGINEER	T. Koong	DATE 9/5/93
APPROVED	T. Koong	DATE 9/5/93

MATERIAL: X
FINISH: X

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

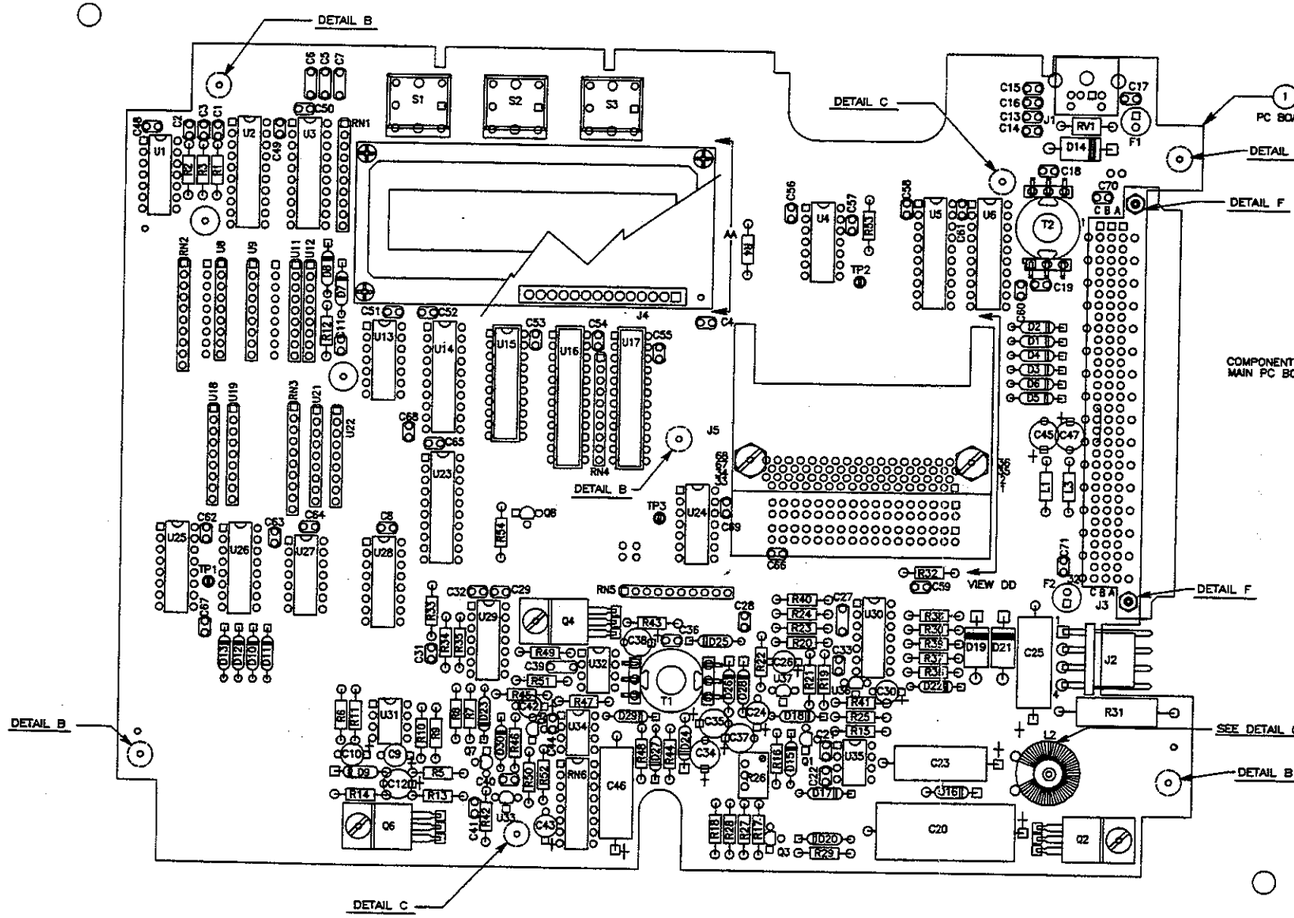
TITLE: ASSY DWG
INTERCONNECT BOARD

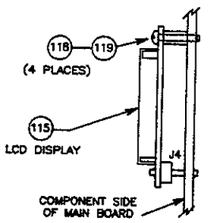
SIZE	DRAWING NUMBER	REV.
C	9966A	01

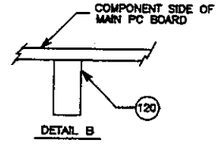
SCALE | SHEET 1 OF 1

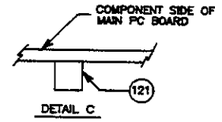
BRUNING 71124 FORM # 8233

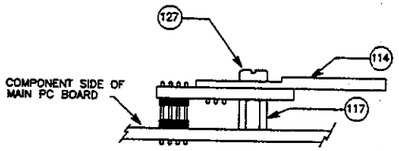
REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
00	9911	SEE ECN	SAS	3/94	BS	DR

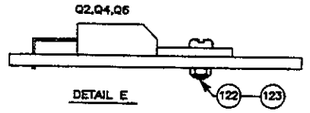


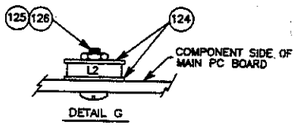


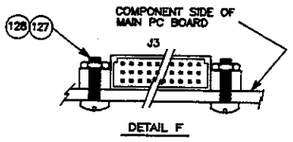




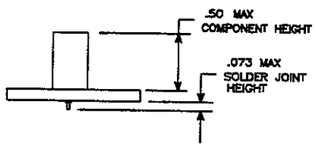








NOTES:
1–OBSERVE POLARITY AND ORIENTATION MARKING OF ALL COMPONENTS.
2–INSERTS COMPONENTS FULLY INTO BOARD.
3–FOR SCHEMATICS DRAWING SEE 10080CC
4–STORE IN ANTISTATIC BAG. P/N 410080 – NOT SHOWN.
5–FOR PARTS LIST SEE P/L 10080C.
6–SEE DETAIL E FOR MOUNTING Q2,Q4,Q5



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DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
1 PLACE DECIMALS ±
2 PLACE DECIMALS ±
ANGLES ±

NEXT ASSY	USED ON
D10322TAB	510
D10324TAB	511

APPLICATION

DRAWN	S. STRONG	DATE 3-17-94
CHECKED	J. HOELCK	DATE 3-23-94
ENGINEER		DATE 3-24-94
APPROVED		DATE 3-26-94

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE ASSEMBLY DWG
LCD BOARD

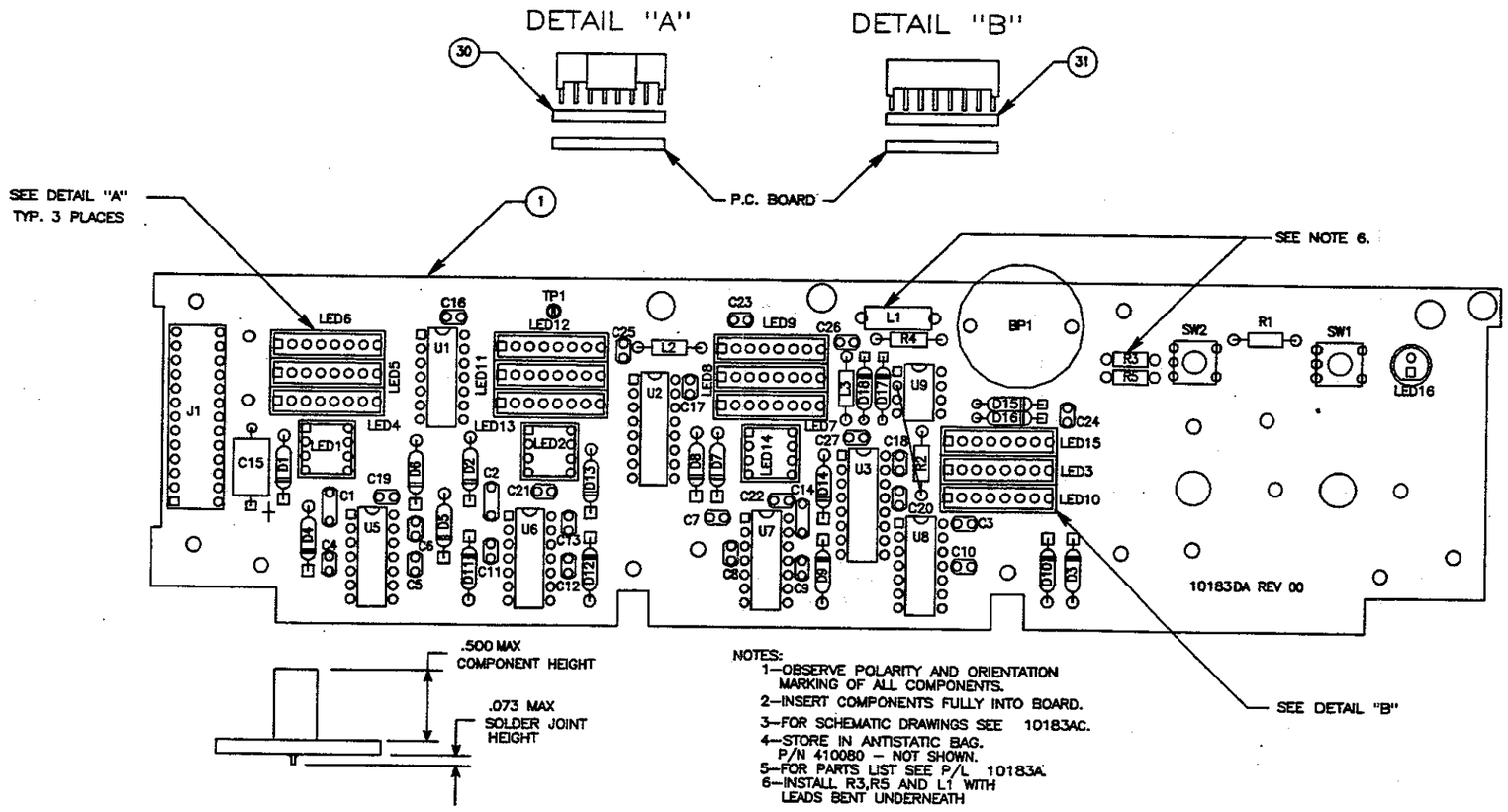
MATERIAL ~ | FINISH ~

SIZE	DRAWING NUMBER	REV.
D	10080C	00

SCALE 1.6 | SHEET 01

BRUNING 72559

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
00	9494	NEW RELEASE	CY	8-93	BS	
01	9723	RMV JMP1	PL	12-93	BS	



NOTES:
1—OBSERVE POLARITY AND ORIENTATION MARKING OF ALL COMPONENTS.
2—INSERT COMPONENTS FULLY INTO BOARD.
3—FOR SCHEMATIC DRAWINGS SEE 10183AC.
4—STORE IN ANTISTATIC BAG. P/N 410080 — NOT SHOWN.
5—FOR PARTS LIST SEE P/L 10183A.
6—INSTALL R3,R5 AND L1 WITH LEADS BENT UNDERNEATH

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± X
2 PLACE DECIMALS ± X
3 PLACE DECIMALS ± X
ANGLES ± X

10317B	510
10318A	510
NEXT ASSY	USED ON
APPLICATION	

DRAWN	R. LIBBY	DATE 12-16-93
CHECKED	L. Strong	DATE 9/8/93
ENGINEER	T. Kordy	DATE 4-9-93
APPROVED	T. Kordy	DATE 9-9-93

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE: ASSEMBLY DWG
510 DISPLAY PANEL BD.

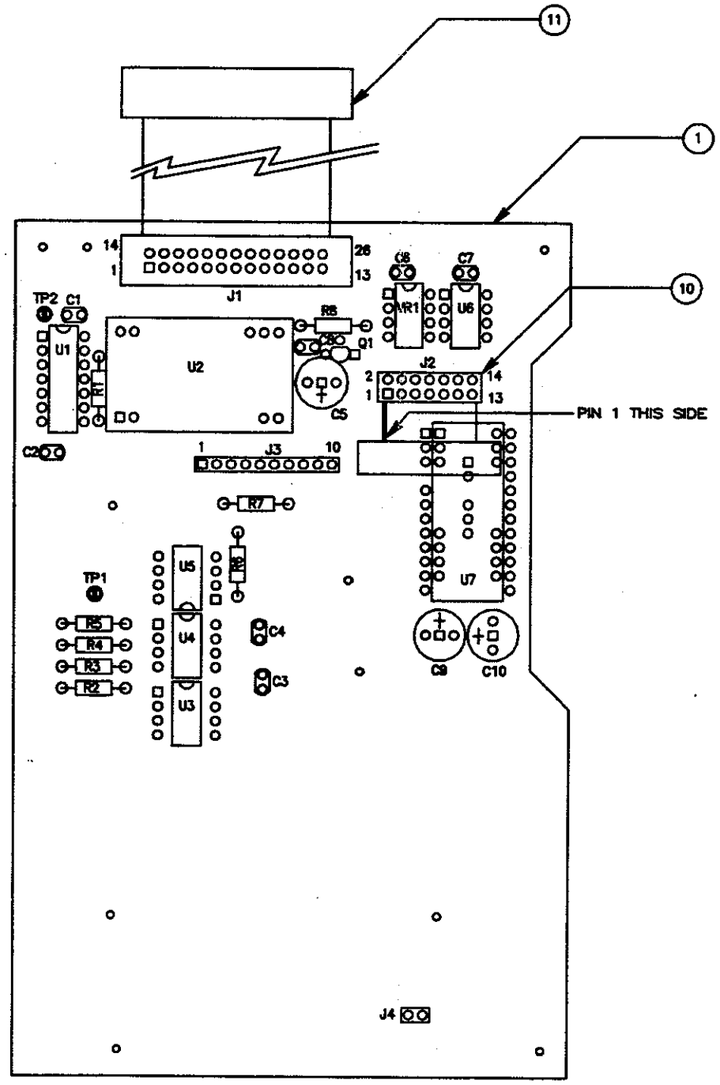
MATERIAL	FINISH
X	X

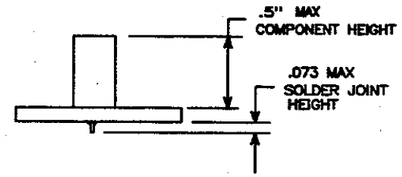
SIZE	DRAWING NUMBER	REV.
C	10183A	01

SCALE 1.5:1 SHEET 1 OF 1

BRUNING 7134-FORM # 9335

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
00	9431	INITIAL RELEASE	J.C.H	7/30/93	BS	J.K.
01	9999	CHG TO AGREE-RMV ITEM 12	SAS	9/21	BS	





NOTES:
1—OBSERVE POLARITY AND ORIENTATION MARKING OF ALL COMPONENTS.
2—INSERT COMPONENTS FULLY INTO BOARD.
3—FOR SCHEMATIC DRAWINGS SEE 10944AC.
4—STORE IN ANTISTATIC BAG. P/N 410080 — NOT SHOWN.
5—FOR PARTS LIST SEE P/L 10944A.

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REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ± .005
ANGLES ±

NEXT ASSY	USED ON
C 11179A	510/511

APPLICATION

DRAWN	J. HOELCK	DATE 7/30/93
CHECKED	S. STRONG	DATE 7/30/93
ENGINEER	J. Kong	DATE 8/5/93
APPROVED	J. Kong	DATE 8/5/93

MATERIAL —

FINISH —

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE MODEL 510
NELCOR OPTION BOARD
ASSEMBLY DRAWING

SIZE	DRAWING NUMBER	REV.
C	10944A	01

SCALE 1.5 SHEET 1 of 1

#RUNNING 71234 FORM # 8235